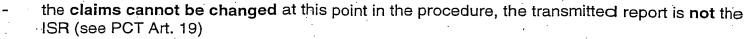
From the INTERNATIONAL SEAF	RCHING AUTHORITY	PCT		
To: BOEHMERT & BOEHMERT Attn. Krauss, Jan B. Pettenkoferstrasse 20-	BOEHMERT & BO Minchen	INVITATI	ON TO PAY ADDITIONAL FEES	
D-80336 Munchen GERMANY	Eing.: 14. Jan. 200	:	Article 17(3)(a) and Rule 40.1)	
	gesehen: Sekr.: Ar Verfügung:	w.:		
REGISTERE	D'MAIL M. 03, CL	Date of mailing (day/month/year)	12/01/2004	
Applicant's or agent's file reference U30056PCT		PAYMENT DUE	within 30 KWKKs/days from the above date of mailing	
International application No. PCT/EP 03/08495		International filing date (day/month/year) 31/07/2003		
Applicant				
CHARITE-UNIVERSITÄTSMEI	DIZIN BERLIN			
This International Searching Auth  (i) considers that there are		mber of) inventions	claimed in the international application covered	
by the claims indicated MAD		,		
and it considers that the in (Rules 13.1, 13.2 and 13.3)	ternational application does no for the reasons indicate <b>රාර</b> ණ	t comply with the re W/on the extra shee	quirements of unity of invention tt:	
		•		
		•		
,,,	al international search (see An ational application which relate		will establish the international search report mentioned in claims Nos.:	
1-10, 13-24	(PART)		at ·	
(iii) will establish the internation to which, additional fees are		parts of the internation	onal application only if, and to the extent	
2. The applicant is hereby invited,	within the time limit indicated	above, to pay the ar	nount indicated below:	
EUR 945.00  Fee per additional invention	x6 number of additional in		EUR 5 670 00 otal amount of additional fees	
Or,				
The applicant is informed that, acc	cording to Rule 40.2(c), the paeffect that the international app	ayment of any addi	tional fee may be made under protest, th the requirement of unity of invention	
3. X Claim(s) Nos. see ann Article 17(2)(b) because of c	ex lefects under Article 17(2)(a) a	have not therefore have r	been found to be unsearchable under lot been included with any invention.	
Name and mailing address of the Interna	· 1	Authorized officer		
European Patent Office, P.I. NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx.	2"	Sandrine	Polenzani	

## Important Information

#### general



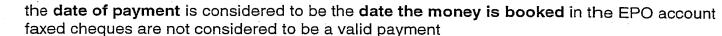
 non-payment does not lead to a loss of rights, a new procedure will be started on entry into the regional or national phase

any payments have to be effected directly to this ISA (account details on separate sheets),
 payments to other entities will not be accepted

- in case of a **total of more than 2 inventions** found: when paying please **specify exactly** which claims should be searched

- an extension of the set time limit may be granted, however, the total number of days shall not exceed 45 days (PCT Rule 40.3). It has to be requested in writing (preferably faxed) and must be received by this ISA within the first time limit, i.e. 30 days calculating from the date of mailing.

## payment by cheque or money transfer:



- only payments in EUR are accepted, no equivalents in other currencies

- payments by credit card are not possible

## payment by deposit account:

the date of payment is considered to be the date that the authorisation to deduct fees from the deposit account is received at the EPO

## payments under protest according to Rule 40 PCT:

- the protest will not be accepted without a payment of additional search fee(s)

the protest has to be accompanied by a technical reasoning no protest fee needs to be paid yet, only additional search fee(s)

# Annex to Form PCT/ISA/206 COMMUNICATION LATING TO THE RESULTS OF THE PARTIAL TERNATIONAL SEARCH

Application No PCT 2 03/08495

- 1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:
- see 'Invitation to pay additional fees' 2. This communication is not the international search report which will be established according to Article 18 and Rule 43.
- 3.If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
- 4.If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

C. DOCUME	NTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
x 🗸	WO 01 47540 A (BETH ISRAEL HOSPITAL) 5 July 2001 (2001-07-05) *cf. abstract, page 7, lines 19-25, page 8, line 23 bridging with page 9, line 24, experiment 2 on pp. 46/47, claims 1/4/5*	1-10, 13-24	
x 🗸	WO 99 09006 A (BEHNKE MARK; ROUSH WILLIAM (US); PLAMONDON LOUIS (US); SOUCY FRANC) 25 February 1999 (1999-02-25) *cf. abstract, page 9, line 15 bridging with page 10, line 2, page 31, line 2, page 41, lines 3-9, example 15 on page 67ff., page 69, lines 1-5, claims 71/72*	1-10, 13-24	
:	<b></b>		
• !			
		es	
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Furth	er documents are listed in the continuation of box C. X Patent family members are listed	in annex.	

Special categories of cited documents:

- \*A\* document defining the general state of theart which is not considered to be of particular relevance
- \*E\* earlier document but published on or after theinternational filing date
- 'L' document which may throw doubts on priority chim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- O document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the internationalfiling date but later than the priority date claimed

- \*T\* later document published after theinternational filing date or priority date and not in conflict with theapplication but cited to understand the principle or theory underlying the inventor.
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimedinvention cannot be considered to involve an inventive step when the document is combined with one or more othersuch documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-10, 13-24 (PART.)

Use of at least on proteasome inhibitor for the manufacture of a medicament for the prevention, onset therapy, acute therapy and/or regression of diseases "associated with endothelial dysfunction", wherein the proteasome inhibitor is selected from a group comprising:

a) naturally occurring proteasome inhibitors comprising peptide derivatives which have a C-terminal epoxy keton structure, beta-lacton-derivatives, aclacinomycin A, lactacystin, clastolactacystin.

2. Claims: 1-10, 13-24 (PART)

Use of at least on proteasome inhibitor for the manufacture of a medicament for the prevention, onset therapy, acute therapy and/or regression of diseases "associated with endothelial dysfunction", wherein the proteasome inhibitor is selected from a group comprising:

b) synthetic proteasome inhibitors comprising: modified peptide aldehydes such as N-carbobenzoxy-L-leucinyl-L-leucinyl-L-leucinal (MG132), or the boric acid derivative of MG232, N-carbobenzoxy-Leu-Nva-H (MG115), N-acetyl-L-leucinyl-L-leucinyl-L-norleucinal (LLnL), N-carbobenzoxy-Ile-Glu(OBut)-Ala-Leu-H (PS1).

3. Claims: 1-10,13-24 (PART)

Use of at least on proteasome inhibitor for the manufacture of a medicament for the prevention, onset therapy, acute therapy and/or regression of diseases "associated with endothelial dysfunction", wherein the proteasome inhibitor is selected from a group comprising:

c) peptides comprising: an alpha, beta-epoxyketone-structure, vinyl-sulfones such as carbobenzoxy-L-leucinyl-L-leucinyl-L-leucin-vinyl-sulfon or 4-hydroxy-5-iodo-3-nitrophenylacetyl-L-leucinyl-L-leucinyl-L-leucin-vinyl-sulfon (NLVS).

4. Claims: 1-10, 13-24 (PART)

Use of at least on proteasome inhibitor for the manufacture of a medicament for the prevention, onset therapy, acute therapy and/or regression of diseases "associated with endothelial dysfunction", wherein the proteasome inhibitor is selected from a group comprising:

#### INVITATION TO PAY ADDITIONAL FEES

d) Glyoxal- or boric acid residues such as pyrazyl-CONH(CHPhe)CONH(CHisobutyl)B(OH)2 and dipeptidyl-boric-acid derivatives.

### 5. Claims: 1-10,13-24 (PART)

Use of at least on proteasome inhibitor for the manufacture of a medicament for the prevention, onset therapy, acute therapy and/or regression of diseases "associated with endothelial dysfunction", wherein the proteasome inhibitor is selected from a group comprising:

e) Pinacol-esters such as: benzyloxycarbonyl(Cbz)-Leu-leuboro-Leu-pinacolester.

#### 6. Claims: 11,25 (PART)

Use of at least on proteasome inhibitor for the manufacture of a medicament for the prevention, onset therapy, acute therapy and/or regression of diseases "associated with endothelial dysfunction", wherein the proteasome inhibitor is selected from a group comprising:

f) a proteasome inhibitor interfering with proteasomal gene expression, selected from a group comprising antisense RNA, double stranded RNA and oligonucleotides hybridising with a DNA sequence encoding at least one component of the proteasome complex.

#### 7. Claims: 12.26 (PART)

Use of at least on proteasome inhibitor for the manufacture of a medicament for the prevention, onset therapy, acute therapy and/or regression of diseases "associated with endothelial dysfunction", wherein the proteasome inhibitor is selected from a group comprising:

g) a proteasome inhibitor interfering with a proteasomal gene expression selected from a group comprising a knock out construct

The present application concerns different groups (a-g) of proteasome inhibitors for the prevention/onset therapy/acute therapy and/or regression of "diseases associated with endothelial dysfunction", comprising ischemic diseases of organs.

However, compositions comprising proteasome inhibiting agents in the treatment of ischemic disorders including myocardial infarction or myocardial ischemia are disclosed in WO-A-01/47540 and WO-A-99/09006.





PCT/EP 03/08495

Hence the subjects as defined above are no longer linked by a common concept involving a particular technical feature pursuant to Rule 13.1 PCT. Hence the present application lacks unity of à posteriori.

Each of the above listed inventions has to be regarded as a distinct invention, characterised by its own particular technical contribution which as a whole, forms part of the prior art.

As searching the other subjects would have caused a major additional searching effort, only the first invention has been searched.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 206

Continuation of Box 3.

Claims Nos.: 1-2

Present claims 1-26 relate to an extremely large number of possible compounds. In fact, the claims contain so many options, variables, possible permutations and provisos that a lack of clarity within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear namely those compounds recited in the examples and closely related homologous compounds mentioned in the claims 6 and 7. Moreover, the claims covering all compounds having the characteristic or property of being useful in the treatment/therapy of "diseases associated with endothelial dysfunction" only find support within the meaning of Article 6 PCT within the meaning of Article 5 PCT for only a very limited number of such compounds (MG132). In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

## Patent Family Annex n on patent family members

Application No
PCT \_\_\_ 03/08495

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0147540	A	05-07-2001	AU CA EP WO	2599001 A 2397955 A1 1242107 A1 0147540 A1	09-07-2001 05-07-2001 25-09-2002 05-07-2001
WO 9909006	Α	25-02-1999	AU AU BR CA CN EP HU JP NZ WO US US US	749857 B2 8906298 A 9811304 A 2301054 A1 1271342 T 1021407 A1 0002724 A2 2001515064 T 503169 A 9909006 A1 6133308 A 2003191322 A1 6294560 B1 2002016355 A1	04-07-2002 08-03-1999 13-11-2001 25-02-1999 25-10-2000 26-07-2000 28-02-2001 18-09-2001 21-12-2001 25-02-1999 17-10-2000 09-10-2003 25-09-2001 07-02-2002